



SEQUENCE LISTING

<110> Cheung, Ambrose
Manna, Adar
Zhang, Gongyi

<120> COMPOSITIONS AND METHODS FOR AFFECTING VIRULENCE DETERMINANTS IN BACTERIA

10 <130> DC-0199

<140> US 10/043,539
<141> 2002-01-11

15 <150> US 60/261,233
<151> 2001-01-12

<150> US 60/261,607
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<150> US 60/289,601
<151> 2001-05-08

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120

45 taacatagtt ggatagagtt ttgcatttaa tacatcaaat gtgaaccttg ctacaacaag
180

50 atgtgcatcagaaggagtgg tttata atg agt aaa att aat gat att aat gat
234

Met Ser Lys Ile Asn Asp Ile Asn Asp
1 5

55 tta gtc aac gca aca ttt caa gtt aag aag ttt ttc aga gat aca aaa
282

Leu Val Asn Ala Thr Phe Gln Val Lys Lys Phe Phe Arg Asp Thr Lys
10 15 20 25

60 aag aag ttc aat ttg aac tat gaa gaa att tat att att tta aat cat att
330

Lys Lys Phe Asn Leu Asn Tyr Glu Glu Ile Tyr Ile Leu Asn His Ile

30 35 40

tta aga agt gag tct aac gaa atc tca tct aaa gag att gct aag tgc
378

5 Leu Arg Ser Glu Ser Asn Glu Ile Ser Ser Lys Glu Ile Ala Lys Cys
 45 50 55

tca gag ttc aaa cct tac tat tta act aaa gct tta caa aag cta aaa
426

10 Ser Glu Phe Lys Pro Tyr Tyr Leu Thr Lys Ala Leu Gln Lys Leu Lys
 60 65 70

gat tta aaa ttg tta tca aag aaa aga agt tta caa gac gaa aga aca
474

15 Asp Leu Lys Leu Leu Ser Lys Lys Arg Ser Leu Gln Asp Glu Arg Thr
 75 80 85

gtt att gtt tat gtt aca gat aca caa aaa gca aat att caa aaa ctg
522

20 Val Ile Val Tyr Val Thr Asp Thr Gln Lys Ala Asn Ile Gln Lys Leu
 90 95 100 105

att tca gaa tta gaa gaa tac att aaa aat taaaatcaagg ttaattgcgt
572

25 Ile Ser Glu Leu Glu Glu Tyr Ile Lys Asn
 110 115

ttaataacat tgaacgataa caatttatta atacgaagtt atttattcag cattgggaca
632

30 taaaattaac taaaattta aatattgaag atgcttaat taaagttaaa gaccagccat
692

35 accttatttc agcttattaa gcttgacaca aggtacacta gtcttttat tttaatattt
752

tcttagaaaa tcaagttac gatcataaat attttctgcg atatacgctt ggatggttcc
812

40 aagtattttc tctataattt gtgtgcgata agcaaaaatt ctaactgcaa aaccatgtgt
872

aggcaattga gaaatagcaa cacgacaatc ggatgtattg ctataagaac taatggtttc
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45 ataaaactgaa tcgat
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60 Val Lys Lys Phe Phe Arg Asp Thr Lys Lys Phe Asn Leu Asn Tyr

20 25 30

5 Glu Glu Ile Tyr Ile Leu Asn His Ile Leu Arg Ser Glu Ser Asn Glu
 35 40 45

10 Ile Ser Ser Lys Glu Ile Ala Lys Cys Ser Glu Phe Lys Pro Tyr Tyr
 50 55 60

15 Leu Thr Lys Ala Leu Gln Lys Leu Lys Asp Leu Lys Leu Leu Ser Lys
 65 70 80

20 Lys Arg Ser Leu Gln Asp Glu Arg Thr Val Ile Val Tyr Val Thr Asp
 85 90 95

25 Thr Gln Lys Ala Asn Ile Gln Lys Leu Ile Ser Glu Leu Glu Tyr
 100 105 110

30 Ile Lys Asn
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50 Thr Tyr Ala Asp Lys Leu Lys Ser Leu Ile Lys Lys Glu Phe Ser Ile
 20 25 30

55 Ser Phe Glu Glu Phe Ala Val Leu Thr Tyr Ile Ser Glu Asn Lys Glu
 35 40 45

60 Lys Glu Tyr Tyr Leu Lys Asp Ile Ile Asn His Leu Asn Tyr Lys Gln
 50 55 60

65 Pro Gln Val Val Lys Ala Val Lys Ile Leu Ser Gln Glu Asp Tyr Phe
 65 70 75 80

70 Asp Lys Lys Arg Asn Glu His Asp Glu Arg Thr Val Leu Ile Leu Val
 85 90 95

75 Asn Ala Gln Gln Arg Lys Lys Ile Glu Ser Leu Leu Ser Arg Val Asn
 100 105 110

Lys Arg Ile Thr Glu Ala Asn Asn Glu Ile Glu Leu
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10 <220>
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40 <220>
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gcatgaaaaa gatatcgggc attt
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65 <210> 8
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20 <212> DNA
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25 <400> 9
25 aggagtggg
25 8

30 <210> 10
30 <211> 6
30 <212> DNA
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35 <400> 10
35 tagaat
35 6

40 <210> 11
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45 <400> 11
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45 6

50 <210> 12
50 <211> 20
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55 <400> 12
55 ttactaaatt aaaaaaaatta
55 20

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60 <211> 28

<212> DNA
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10 <210> 14
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40 <210> 17
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45 <400> 17
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50 <210> 18
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55 <400> 18
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60 <210> 19
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20 atgtgcata gaaggagtgg ttataataatg
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25 <210> 20
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20 <213> Staphylococcus aureus

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35 <210> 21
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30 <213> Staphylococcus aureus

40 <400> 21
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45 <210> 22
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50 <400> 22
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55 <210> 23
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15 <210> 26
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Xaa Tyr Xaa Xaa Lys Phe Lys Xaa Xaa Ile Lys Lys Glu Phe Xaa Leu
20 25 30

Ser Phe Glu Glu Phe Xaa Ile Leu Thr Tyr Ile Xaa Xaa Gln Xaa Glu
35 40 45

5 Asn Glu Xaa Xaa Leu Lys Asp Ile Ile Xaa Xaa Leu Xaa Tyr Lys Gln
50 55 60

10 Pro Gln Leu Val Lys Ala Leu Lys Xaa Leu Lys Lys Xaa Xaa Tyr Leu
65 70 75 80

15 Ser Lys Lys Arg Ser Xaa Xaa Asp Glu Arg Thr Val Leu Ile Xaa Val
85 90 95

Xaa Asp Xaa Gln Arg Xaa Lys Ile Glu Xaa Leu Leu Ser Xaa Val Asn
100 105 110

20 Gln Xaa Ile Lys Xaa Xaa Asn Xaa
115 120

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<213> Staphylococcus aureus

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20 25 30

40 Thr Ile Lys Glu Phe Ile Leu Leu Thr Tyr Leu Phe His Gln Gln Glu
35 40 45

45 Asn Thr Leu Pro Phe Lys Lys Ile Val Ser Asp Leu Cys Tyr Lys Gln
50 55 60

50 Ser Asp Leu Val Gln His Ile Lys Val Leu Val Lys His Ser Tyr Ile
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20 Phe Val Glu Phe Thr Ile Leu Ala Ile Ile Thr Ser Gln Asn Lys Asn
20 35 40 45

25 Ile Val Leu Leu Lys Asp Leu Ile Glu Thr Ile His His Lys Tyr Pro
25 50 55 60

30 Gln Thr Val Arg Ala Leu Asn Asn Leu Lys Lys Gln Gly Tyr Leu Ile
30 65 70 75 80

35 Lys Glu Arg Ser Thr Glu Asp Glu Arg Lys Ile Leu Ile His Met Asp
35 85 90 95

35 Asp Ala Gln Gln Asp His Ala Glu Gln Leu Leu Ala Gln Val Asn Gln
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40 Leu Leu Ala Asp Lys Asp
40 115

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 45 taa
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60 Thr Tyr Ala Asp Lys Leu Lys Ser Leu Ile Lys Lys Glu Phe Ser Ile
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Ser Phe Glu Glu Phe Ala Val Leu Thr Tyr Ile Ser Glu Asn Lys Glu
35 40 45

5

Lys Glu Tyr Tyr Leu Lys Asp Ile Ile Asn His Leu Asn Tyr Lys Gln
50 55 60

10 Pro Gln Val Val Lys Ala Val Lys Ile Leu Ser Gln Glu Asp Tyr Phe
65 70 75 80

15 Asp Lys Lys Arg Asn Glu His Asp Glu Arg Thr Val Leu Ile Leu Val
85 90 95

20 Asn Ala Gln Gln Arg Lys Lys Ile Glu Ser Leu Leu Ser Arg Val Asn
100 105 110

25 Lys Arg Ile Thr Glu Ala Asn Asn
115 120